TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :BHEL 8th cross road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 30/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	30/12/2020	27/01/2021	509.8	22.66	22.99
2	30/12/2020	27/01/2021	518.7	23.05	
3	30/12/2020	27/01/2021	523.4	23.26	

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8th cross road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain BHEL 8th cross road

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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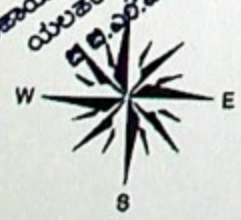

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8th cross road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain BHEL 8th cross road

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON STEEL

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8th cross road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Steel Test Calculation for Culvert and Drain BHEL 8th cross road

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield Stress fy =N/mm²	538	500	545	500	535	500

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4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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